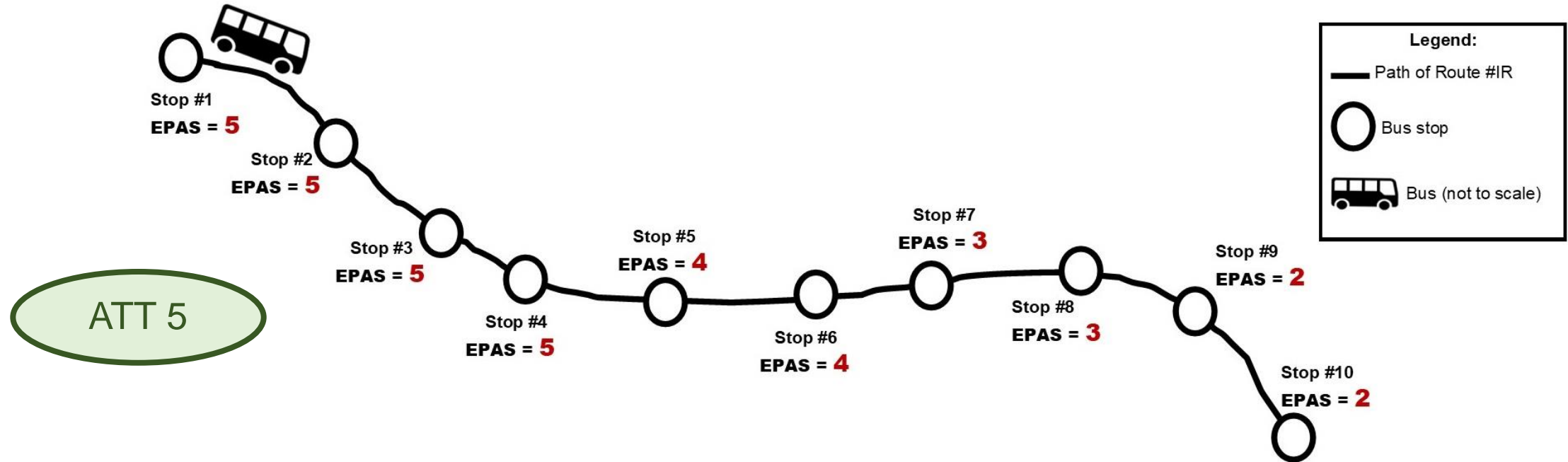# EQUITY METRICS EXAMPLE: Imaginary Route #IR

This is a hypothetical of an imaginary route (#IR) with 10 stops, showing how the proposed equity scores are calculated.

EPAS (Equity Priority Area Score): Calculated for the **Census block group in which each bus stop** is located based on the priority populations in the Census block group in which the bus stop is located. Scored from 1-5, with a higher EPAS meaning more equity need (more priority populations) for that bus stop. **For Route #IR, the (imaginary) EPAS stop-level scores of 1-5 are shown above**

EPS (Equity Prioritization Score): Calculated for each **bus route** based on the average of EPAS scores for each route. EPS is used to prioritize "service growth" adds by ranking the EPAS averages for each route and converting into points of 0-10. Higher EPS = more equity need.
For Route #IR, the EPS (the average of all the stop-level EPAS scores) = 3.8

OIS (Opportunity Index Score): Calculated for each **bus route** based on the percentage of stops with an EPAS of 5. OIS is used to prioritize reductions by ranking the percentage against all other routes and then converting into points of 1-5 (quintiles). Higher OIS = more equity need.
For Route #IR, the percentage of stops with an EPAS of 5 = 40%

A NOTE ON EQUITY

ATT 5

Three equity metrics would be used to prioritize adding or reducing service

	EPAS (Equity Priority Area Score)	EPS (Equity Prioritization Score)	OIS (Opportunity Index Score)
Scale:	1-5 points	0-10 points	1-5 points
Based On:	Each bus stop	Each bus route	Each bus route
How Calculated:	Data on priority populations* in the Census block group at each bus stop	Average of EPAS bus stop scores for each route, then ranked against all other routes	Percent of EPAS scores of 5 for each route, then ranked against all other routes
Used for:	Calculating EPS & OIS scores, Prioritizing flex services	Prioritizing service adds through Priority #3 (Service Growth)	Prioritizing service reductions

*Priority populations = people who are Black, Indigenous and of color; have low and no-income; are immigrants and refugees; have disabilities; or are linguistically diverse